

5. Apply a small amount of special cement to the puncture and spread it evenly.
6. Allow the cement to dry until it is tacky; usually 30 seconds is sufficient.
7. Remove the backing from the patch.

CAUTION

Do not touch the newly exposed rubber or the patch will not stick firmly.

8. Center the patch over the hole. Hold the patch firmly in place for about 30 seconds to allow the cement to dry. Use a roller, if available, to press the patch into place (**Figure 13**).
9. Dust the area with talcum powder.



FRONT HUB/BRAKE DRUM (TWO-WHEEL DRIVE)

Refer to **Figure 14**.

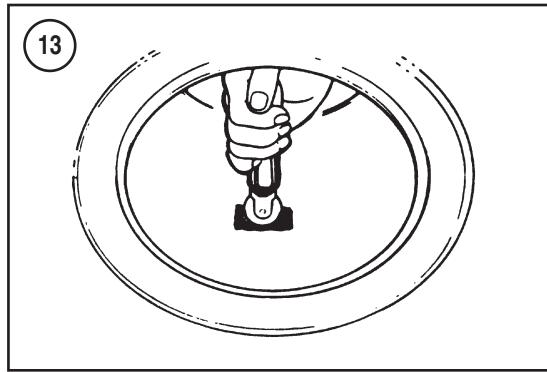
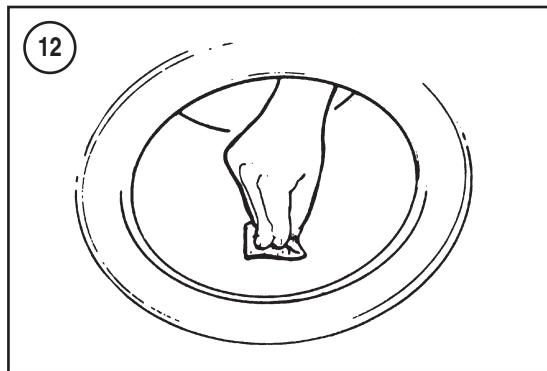
Removal/Installation

1. Remove the front wheel as described in this chapter.

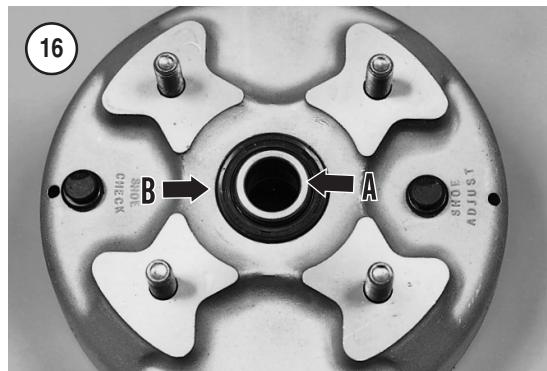
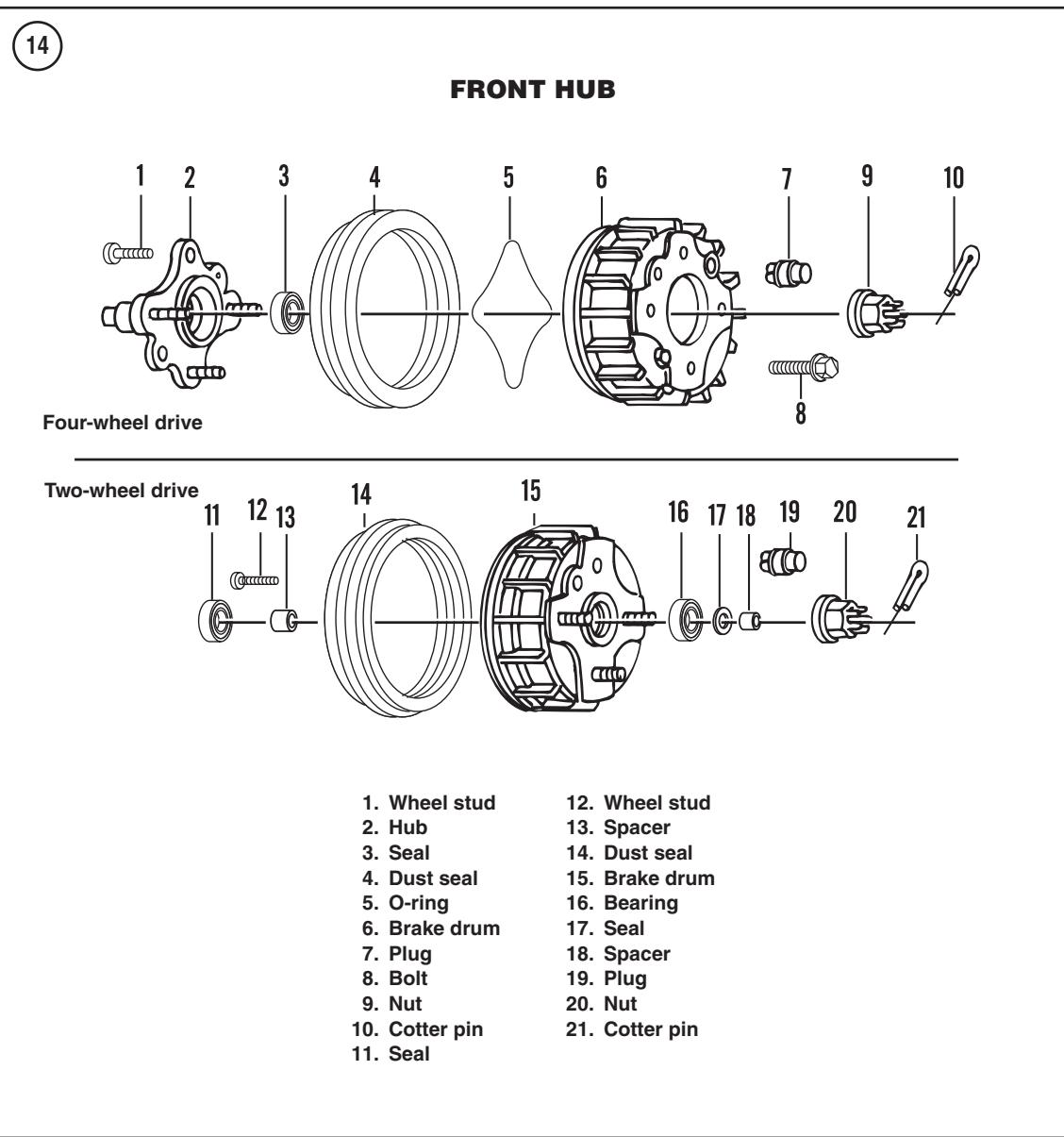
WARNING

Do not inhale brake dust. It may contain asbestos, which can cause lung injury and cancer.

2. Remove the cotter pin and axle nut (**Figure 15**, typical) securing the front hub/brake drum assembly. Remove the front hub/brake drum.
3. Remove the outer spacer (A, **Figure 16**, typical).
4. Remove the seal (B, **Figure 16**, typical).
5. Turn the inner and outer bearings. Both bearing races should turn freely and without any sign of roughness, catching or excessive noise. Replace damaged bearings as follows:
 - a. Insert a drift into one side of the hub. Push the inner spacer over to one side and place the drift on the inner race of the outer bearing. Tap the bearing out of the hub, working around the perimeter of the inner race.
 - b. Remove the inner spacer, then tap out the remaining bearing.
 - c. Clean the inside of the hub.
 - d. Drive in a new inner bearing (brake drum side) so the marked side of the bearing is out. Drive in the bearing until it is seated.



- e. Install the inner spacer.
- f. Drive in a new outer bearing so the marked side of the bearing is out. Drive in the bearing until it is seated.
6. Install a new seal (B, **Figure 16**, typical). Apply a light coat of grease to the seal lips.
7. Install the outer spacer (A, **Figure 16**, typical).
8. Inspect the O-ring on the axle spindle (**Figure 17**) and replace it if it is damaged. Apply grease to the O-ring.



9. Install the front hub/brake drum onto the steering knuckle.
10. Install the axle nut and tighten it to 78 N·m (58 ft.-lb.).

WARNING

Always install a new cotter pin. If necessary, tighten the axle nut to align it with the cotter pin hole in the axle. Do not loosen the axle nut to align it with the hole.

11. Install a new cotter pin through the nut groove and axle hole, and then spread the ends to lock it in place (Figure 18).

FRONT HUB (FOUR-WHEEL DRIVE)

Refer to Figure 14.

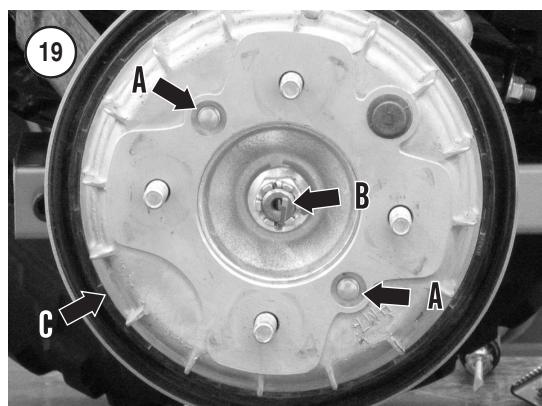
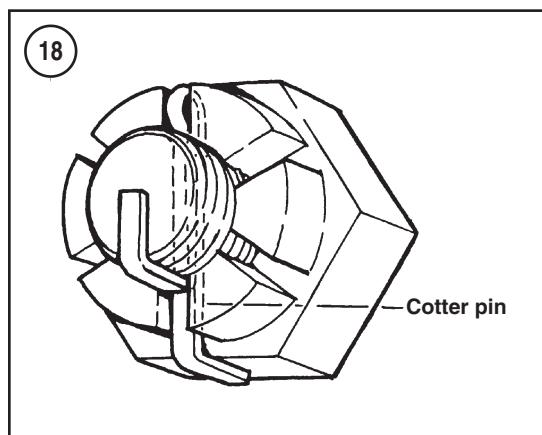
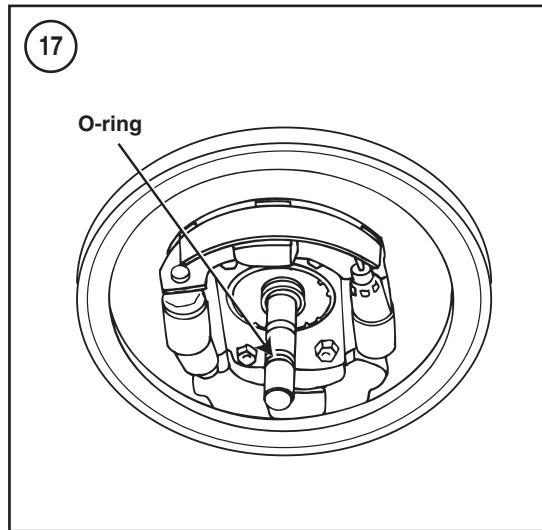
Removal/Installation

1. Remove the front wheel as described in this chapter.

WARNING

Do not inhale brake dust. It may contain asbestos, which can cause lung injury and cancer.

- 2A. To remove the brake drum only, remove the bolts (A, Figure 19) and brake drum.
- 2B. To remove the brake drum and front hub at the same time, perform the following:
 - a. Remove and discard the axle nut cotter pin (B, Figure 19).
 - b. Remove the axle nut and front hub assembly (C, Figure 19).
3. Inspect the front hub as described in this chapter.
4. Refer to Chapter Thirteen to service the brake drum and brake drum seal (A, Figure 20).
5. Install the front hub by reversing the preceding removal steps while noting the following:
 - a. If the brake drum was removed from the front hub, install the O-ring (B, Figure 20) into the brake drum groove.
 - b. If the brake drum was removed from the front hub, install the brake drum and tighten the mounting bolts (A, Figure 19) to 10 N·m (88 in.-lb.).
 - c. Install and tighten the axle nut (B, Figure 19) to 78 N·m (58 ft.-lb.).



WARNING
Always install a new cotter pin. If necessary, tighten the axle nut to align it with the cotter pin hole in the axle. Do not loosen the axle nut to align it with the hole.

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